

WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:

multiscreen synthesis means for composing one
screen by executing a trimming process to a part of an
5 input image and arranging plural pieces of that image;

image quality adjustment value storage means for
storing image quality adjustment values for plural
kinds of image quality adjustment processes;

image quality adjustment process means for
10 executing the image quality adjustment processes for
plural images on the basis of the image quality
adjustment values stored in said image quality
adjustment value storage means; and

control means for converting an input image into a
15 first image to which an image quality adjustment
process was executed by said image quality adjustment
process means on the basis of an image quality
adjustment value before performing an image quality
adjustment operation stored in said image quality
20 adjustment value storage means, and similarly
converting the input image into a second image to which
an image quality adjustment process was executed by
said image quality adjustment process means on the
basis of an image quality adjustment value of newly
25 performing an adjustment operation, then displaying the
converted first and second images on one screen with
arranged state by said multiscreen synthesis means.

2. An image processing apparatus comprising:

image enlargement and reduction means for
enlarging and reducing an input image;

multiscreen synthesis means for composing one
5 screen by arranging plural pieces of the input image
reduced by said image enlargement and reduction means;

image quality adjustment value storage means for
storing image quality adjustment values for plural
kinds of image quality adjustment processes;

10 image quality adjustment process means for
executing the image quality adjustment processes for
plural images on the basis of the image quality
adjustment values stored in said image quality
adjustment value storage means; and

15 control means for executing an image quality
adjustment process to an input image by said image
quality adjustment process means on the basis of an
image quality adjustment value before performing an
image quality adjustment operation stored in said image
20 quality adjustment value storage means and converting
the input image into a first image which was reduced by
said image enlargement and reduction means, and
similarly executing an image quality adjustment process
to the input image by said image quality adjustment
25 process means on the basis of an image quality
adjustment value of newly performing an adjustment
operation and converting the input image into a second

image which was reduced by said image enlargement and reduction means, then displaying the converted first and second images on one screen with arranged state by said multiscreen synthesis means.

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3. An image processing apparatus comprising:

image enlargement and reduction means for enlarging and reducing an input image;

multiscreen synthesis means for composing one
10 screen by executing a trimming process to a part of the image reduced by said image enlargement and reduction means and arranging plural pieces of that image;

image quality adjustment value storage means for storing image quality adjustment values for plural
15 kinds of image quality adjustment processes;

image quality adjustment process means for executing the image quality adjustment processes for plural images on the basis of each of combinations of the image quality adjustment values stored in said
20 image quality adjustment value storage means; and

control means for executing an image quality adjustment process to an input image by said image quality adjustment process means on the basis of an image quality adjustment value before performing an
25 image quality adjustment operation stored in said image quality adjustment value storage means and converting the input image into a first image which was reduced by

said image enlargement and reduction means, and
similarly executing an image quality adjustment process
to the input image by said image quality adjustment
process means on the basis of an image quality
5 adjustment value of newly performing an adjustment
operation and converting the input image into a second
image which was reduced by said image enlargement and
reduction means, then displaying the converted first
and second images on one screen with arranged state by
10 said multiscreen synthesis means.

4. An apparatus according to Claim 1, wherein
images which are displayed on one screen with arranged
state by said multiscreen synthesis means are two
15 pieces, and the image quality adjustment value before
performing the image quality adjustment operation
stored in said image quality adjustment value storage
means coincides with a value which was previously set
at a time of manufacturing, and said multiscreen
20 synthesis means displays an image to which the image
quality adjustment process was executed on the basis of
the value which was previously set at the time of
manufacturing and an image to which the image quality
adjustment process was executed on the basis of the
25 image quality adjustment value of performing the
adjustment operation on one screen with arranged state.

5. An apparatus according to Claim 1, wherein
images which are displayed on one screen with arranged
state by said multiscreen synthesis means are two
pieces, and the image quality adjustment value before
5 performing the image quality adjustment operation
stored in said image quality adjustment value storage
means coincides with a value which was used just before
starting the image quality adjustment operation, and
said multiscreen synthesis means displays an image to
10 which the image quality adjustment process was executed
on the basis of the value which was used just before
starting the image quality adjustment operation and an
image to which the image quality adjustment process was
executed on the basis of the image quality adjustment
15 value of performing the adjustment operation on one
screen with arranged state.

6. An apparatus according to Claim 1, wherein
images which are displayed with arranged state by said
20 multiscreen synthesis means are two pieces, and any one
value can be selected from a value which was previously
set at a time of manufacturing or a value which was
used just before starting the image quality adjustment
operation as the image quality adjustment value before
25 performing the image quality adjustment operation
stored in said image quality adjustment value storage
means, and said multiscreen synthesis means displays

any one image from an image to which the image quality
adjustment process was executed on the basis of the
value which was previously set at the time of
manufacturing or an image to which the image quality
5 adjustment process was executed on the basis of the
value which was used just before starting the image
quality adjustment operation and an image to which the
image quality adjustment process was executed on the
basis of the image quality adjustment value of
10 performing the adjustment operation on one screen with
arranged state.

7. An apparatus according to Claim 1, wherein
images which are displayed with arranged state by said
15 multiscreen synthesis means are three pieces, and the
image quality adjustment values before performing the
image quality adjustment operation stored in said image
quality adjustment value storage means are two values
which were previously set at a time of manufacturing
20 and used just before starting the image quality
adjustment operation, and said multiscreen synthesis
means displays three pieces of an image to which the
image quality adjustment process was executed on the
basis of the value which was previously set at the time
25 of manufacturing, an image to which the image quality
adjustment process was executed on the basis of the
value which was used just before starting the image

quality adjustment operation and an image to which the
image quality adjustment process was executed on the
basis of the image quality adjustment value of
performing the adjustment operation on one screen with
5 arranged state.

8. An apparatus according to Claim 1, further
comprising operation means for arbitrarily setting a
reduction ratio in said image enlargement and reduction
10 means and image arrangement or trimming position in
said multiscreen synthesis means.

9. An image processing method comprising:

a multiscreen synthesis step of composing one
15 screen by executing a trimming process to a part of an
input image and arranging plural pieces of that image;

an image quality adjustment value storage step of
storing image quality adjustment values for plural
kinds of image quality adjustment processes; and

20 an image quality adjustment process step of
executing the image quality adjustment processes for
plural images on the basis of each of combinations of
the image quality adjustment values stored in said
image quality adjustment value storage step,

25 wherein an input image is converted into a first
image to which an image quality adjustment process was
executed in said image quality adjustment process step

on the basis of an image quality adjustment value
before performing an image quality adjustment operation
stored in said image quality adjustment value storage
step, and similarly the input image is converted into a
5 second image to which an image quality adjustment
process was executed in said image quality adjustment
process step on the basis of an image quality
adjustment value of newly performing an adjustment
operation, then the converted first and second images
10 are displayed on one screen with arranged state in said
multiscreen synthesis step.

10. An image processing method comprising:
an image enlargement and reduction step of
15 enlarging and reducing an input image;
a multiscreen synthesis step of composing one
screen by arranging plural pieces of the input image
reduced in said image enlargement and reduction step;
an image quality adjustment value storage step of
20 storing image quality adjustment values for plural
kinds of image quality adjustment processes; and
an image quality adjustment process step of
executing the image quality adjustment processes for
plural images on the basis of each of combinations of
25 the image quality adjustment values stored in said
image quality adjustment value storage step,
wherein an image quality adjustment process is

executed to an input image in said image quality
adjustment process step on the basis of an image
quality adjustment value before performing an image
quality adjustment operation stored in said image
5 quality adjustment value storage step and the input
image is converted into a first image which was reduced
in said image enlargement and reduction step, and
similarly an image quality adjustment process is
executed to the input image in said image quality
10 adjustment process step on the basis of an image
quality adjustment value of newly performing an
adjustment operation and the input image is converted
into a second image which was reduced in said image
enlargement and reduction step, then the converted
15 first and second images are displayed on one screen
with arranged state in said multiscreen synthesis step.

11. An image processing method comprising:
an image enlargement and reduction step of
20 enlarging and reducing an input image;
a multiscreen synthesis step of composing one
screen by executing a trimming process to a part of the
image reduced in said image enlargement and reduction
step and arranging plural pieces of that image;
25 an image quality adjustment value storage step of
storing image quality adjustment values for plural
kinds of image quality adjustment processes; and

an image quality adjustment process step of
executing the image quality adjustment processes for
plural images on the basis of each of combinations of
the image quality adjustment values stored in said
5 image quality adjustment value storage step,

wherein an image quality adjustment process is
executed to an input image in said image quality
adjustment process step on the basis of an image
quality adjustment value before performing an image
10 quality adjustment operation stored in said image
quality adjustment value storage step and the input
image is converted into a first image which was reduced
in said image enlargement and reduction step, and
similarly an image quality adjustment process is
15 executed to the input image in said image quality
adjustment process step on the basis of an image
quality adjustment value of newly performing an
adjustment operation and the input image is converted
into a second image which was reduced in said image
20 enlargement and reduction step, then the converted
first and second images are displayed on one screen
with arranged state in said multiscreen synthesis step.

12. A recording medium which records an image
25 display program for controlling an image processing
apparatus by a computer, wherein said program causes
the computer to

convert an input image into a first image to which
an image quality adjustment process was executed on the
basis of a stored image quality adjustment value before
performing an image quality adjustment operation, and
5 into a second image to which an image quality
adjustment process was executed on the basis of an
image quality adjustment value of newly performing an
adjustment operation, and

execute a trimming process to parts of the
10 converted first and second images to display obtained
image pieces on one screen with arranged state.

13. A recording medium which records an image
display program for controlling an image processing
15 apparatus by a computer, wherein said program causes
the computer to

execute an image quality adjustment process to an
input image on the basis of a stored image quality
adjustment value before performing an image quality
20 adjustment operation and convert the input image into a
first image which was reduced, and execute an image
quality adjustment process to the input image on the
basis of an image quality adjustment value of newly
performing an adjustment operation and convert the
25 input image into a second image which was reduced, and

display the converted first and second images on
one screen with arranged state.

14. A recording medium which records an image display program for controlling an image processing apparatus by a computer, wherein said program causes the computer to

5 execute an image quality adjustment process to an input image on the basis of a stored image quality adjustment value before performing an image quality adjustment operation and convert the input image into a first image which was reduced, and execute an image
10 quality adjustment process to the input image on the basis of an image quality adjustment value of newly performing an adjustment operation and convert the input image into a second image which was reduced, and

15 execute a trimming process to each part of the converted first and second images to display obtained image pieces on one screen with arranged state.